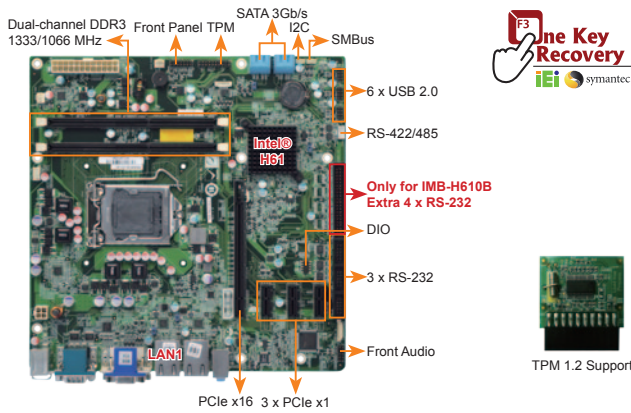


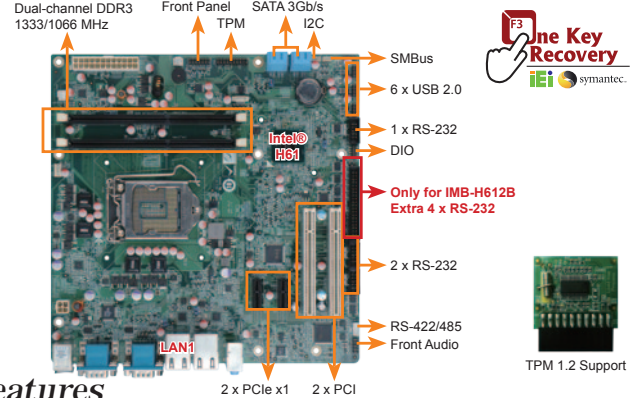
# IMB-H610A/IMB-H610B

microATX Motherboard Supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/ Celeron® CPU with Intel® H61, DDR3, VGA/DVI-D, Dual Realtek PCIe GbE, USB 2.0, Six COMs, SATA 3Gb/s, HD Audio and RoHS



# IMB-H612A/IMB-H612B

microATX Motherboard Supports 32nm LGA1155 Intel® Core™ i7/i5/i3 CPU with Intel® H61, DDR3, Dual VGA, Dual PCIe GbE, USB 2.0, PCI, Six COMs, SATA 3Gb/s, Audio and RoHS



## Specifications

- CPU**  
LGA1155 socket supports Intel® Core™ i7/i5/i3 quad/dual, Pentium® dual and Celeron® dual/single core processors
- System Chipset:** Intel® H61
- Memory**  
Two 240-pin 1333/1066 MHz dual-channel unbuffered DDR3 SDRAM DIMMs supported (system max. 16GB)
- BIOS:** UEFI BIOS
- Ethernet**  
LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support  
LAN2: Realtek RTL8111E PCIe GbE controller
- Graphics Engine**  
Intel® HD Graphics 2000/3000 (based on CPU type)  
Supports DX10.1 and OpenGL 3.0  
Full MPEG2, VC1, AVC Decode
- I/O Interface**  
1 x RS-422/485      1 x PS/2 KB/MS  
4 x SATA 3Gb/s without RAID & AHCI  
10 x USB 2.0 (4 by rear IO, 6 by pin header)  
5 x RS-232 (for IMB-H610A-R10)  
9 x RS-232 (for IMB-H610B-R10)
- Super I/O:** Fintek F81866
- Display Output**  
Dual display supported  
1 x VGA (up to 2048 x 1536 @75Hz)  
1 x DVI-D (up to 1920 x 1200 @60Hz)
- Audio**  
Realtek ALC662 HD audio codec (Line-in, Line-out, Mic)
- Front Audio:** 1 x 10-pin header
- Front Panel**  
1 x Front panel connector (power LED, HDD LED, speaker, power button, reset button)
- TPM:** 1 x TPM connector (2x10 pin)
- SMBus:** 1 x 4-pin wafer
- I2C:** 1 x 4-pin wafer
- Expansions**  
1 x PCIe x16 slot      3 x PCIe x1 slot
- Watchdog Timer**  
Software programmable supports 1~255 sec. system reset
- Digital I/O:** 8-bit programmable I/O
- Fan Connector**  
1 x 4-pin CPU fan connector  
2 x 3-pin system fan connector
- Power Supply:** ATX/AT power supply
- Power Consumption**  
3.3V@1.75A, 5V@6.61A, Vcore@3.68A, 12V@0.09A, 5sb@0.12A (Intel® 2.60GHz CPU with two 1333MHz 4GB DDR3 memory)
- Operating Temperature:** -10°C ~ 60°C
- Storage Temperature:** -20°C ~ 70°C
- Operating Humidity**  
5% ~ 95%, non-condensing
- Dimensions:** 244 mm x 244 mm
- Weight:** GW: 1200g/NW: 680g

## Packing List

1 x IMB-H610 single board computer	
4 x SATA cable (P/N: 32000-062800-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45014-0008C0-00-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

## Ordering Information

Part No.	Description
IMB-H610A-R10	microATX motherboard supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/ Celeron® CPU with Intel® H61, DDR3, VGA/DVI-D, dual Realtek PCIe GbE, USB 2.0, 6 COM, SATA 3Gb/s, HD Audio and RoHS
IMB-H610B-R10	microATX motherboard supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/ Celeron® CPU with Intel® H61, DDR3, VGA/DVI-D, dual Realtek PCIe GbE, USB 2.0, 10 COM, SATA 3Gb/s, HD Audio and RoHS
19800-003100-300-RS	Dual-port USB cable with bracket
32205-003800-300-RS	RS-422/485 cable, 200mm
32102-000100-200-RS	SATA power cable
32205-001203-200-RS	Quad-port RS-232 cable without bracket, 400/400/400/400mm
19800-003600-100-RS	Dual-port RS-232 cable
19800-010900-200-RS	Single-port RS-232 cable
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17
CPU-DT-i5-2500T	Intel® Core™ i5-2500T processor, LGA1155, quad core 2.3GHz, 6M cache, 45W, compatible with CF-1156C-RS CPU cooler
CPU-DT-i5-2390T	Intel® Core™ i5-2390T processor, LGA1155, dual core 2.7GHz, 3M cache, 35W, AMT, compatible with CF-1156C-RS CPU cooler
CPU-DT-i3-2120T	Intel® Core™ i3-2120T processor, LGA1155, dual core 2.6GHz, 3M cache, 35W, compatible with CF-1156C-RS CPU cooler
CPU-DT-P-G630T	Intel® Pentium® G630T processor, LGA1155, dual core 2.3GHz, 3M cache, 35W, compatible with CF-1156C-RS CPU cooler
CPU-DT-C-G440	Intel® Celeron® G440 processor, LGA1155, single core 1.6GHz, 1M cache, 35W, compatible with CF-1156C-RS CPU cooler
CF-1156A-RS-R11	High-performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156C-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-1156E-R11	High-performance LGA1155/LGA1156 cooler kit, 95W

## Features

- LGA1155 Intel® Core™ i7/i5/i3 processor supported
- Dual-channel 1333MHz DDR3/DDR3L (1.35V) supports up to 16GB
- Intel® HD Graphics technology integrates high-performance graphics and media processing
- Supports independent display output via dual VGA
- Supports legacy PCI 32-bit 33/66MHz
- Supports lower power 1.35V DDR3 memory
- TPM V1.2 hardware security function supported by TPM module
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- CPU**  
LGA1155 socket supports Intel® Core™ i7/i5/i3 quad/dual, Pentium® dual and Celeron® dual/single core processors
- System Chipset:** Intel® H61
- Memory**  
Two 240-pin 1333/1066MHz dual-channel DDR3/DDR3L (1.35V) SDRAM unbuffered DIMMs supported (system max. 16GB)
- BIOS:** UEFI BIOS
- Ethernet**  
LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support  
LAN2: Realtek RTL8111E PCIe GbE controller
- Graphics Engine**  
VGA1: Intel® HD Graphics 2000/3000 (based on CPU type)  
Supports DX10.1 and OpenGL 3.0  
Full MPEG2, VC1, AVC Decode  
VGA2: Chrontek CH7317B
- Display Output**  
Dual display supported  
VGA1: up to 2048 x 1536 @75Hz  
VGA2: up to 1920 x 1200 @60Hz
- Super I/O:** Fintek F81866
- PCI to PCI Bridge IC:** ITE IT8893E
- Audio**  
Realtek ALC662 HD audio codec (Line-in, Line-out, Mic)
- I/O Interface**  
1 x PS/2 KB/MS      1 x RS-422/485  
4 x SATA 3Gb/s without RAID & AHCI  
10 x USB 2.0 (4 by rear IO, 6 by pin header)  
5 x RS-232 (for IMB-H612A-R10)  
9 x RS-232 (for IMB-H612B-R10)
- Front Audio:** 2 x 5-pin header
- TPM:** 1 x TPM connector (2x10 pin)
- SMBus:** 1 x 4-pin wafer
- I2C:** 1 x 4-pin wafer
- Expansions**  
2 x PCIe x1 slot      2 x PCI slot
- Watchdog Timer**  
Software programmable supports 1~255 sec. system reset
- Digital I/O:** 8-bit programmable I/O
- Fan Connector**  
1 x 4-pin CPU fan connector  
2 x 3-pin system fan connector
- Power Supply:** AT/ATX power supply supported
- Power Consumption**  
12V@0.27A, Vcore@5.3A, 5V@2.0A, 3.3V@1.0A (3.10GHz Intel® Core™ i5-2400 CPU with two 1333MHz 4GB DDR3 memory)
- Operating Temperature:** -10°C ~ 60°C
- Storage Temperature:** -20°C ~ 70°C
- Operating Humidity**  
5% ~ 95%, non-condensing
- Dimensions:** 244 mm x 244 mm
- Weight:** GW: 1200g/NW: 680g

## Packing List

1 x IMB-H612 single board computer	
4 x SATA cable (P/N: 32000-062800-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45014-0041C0-00-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

## Ordering Information

Part No.	Description
IMB-H612A-R10	microATX motherboard supports 32nm LGA1155 Intel® Core™ i7/i5/i3 CPU with Intel® H61, DDR3, VGA, dual PCIe GbE, PCI, 6 COM, USB 2.0, SATA 3Gb/s, Audio and RoHS
IMB-H612B-R10	microATX motherboard supports 32nm LGA1155 Intel® Core™ i7/i5/i3 CPU with Intel® H61, DDR3, VGA, dual PCIe GbE, PCI, 10 COM, USB 2.0, SATA 3Gb/s, Audio and RoHS
19800-003100-300-RS	Dual-port USB cable with bracket
32205-003800-300-RS	RS-422/485 cable, 200mm
32102-000100-200-RS	SATA power cable
CF-1156A-RS-R11	High-performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156C-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-1156E-R11	High-performance LGA1155/LGA1156 cooler kit, 95W
32205-001203-200-RS	Quad-port RS-232 cable without bracket, 400/400/400/400mm
19800-003600-100-RS	Dual-port RS-232 cable
19800-010900-200-RS	Single-port RS-232 cable
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17